

WHAT IS CLAIMED IS:

1. A door of a motor vehicle comprising a body shell and at least one movable glass panel arranged to slide at least partially on the inside of the shell between a sealing position and at least one open position, characterized in that

the door comprises at least one strut bearing a watertight joint against which an inside of the movable glass panel leans in the sealing position, and in that

the at least one strut bears at least one guide track allowing the movable glass panel to separate from the watertight joint in a sliding position so that the movable panel can slide without damaging the watertight joint, and can return to lean against the watertight joint in the sealing position.

2. A door according to claim 1, characterized in that, in the sliding position, the glass panel is in a sliding plane parallel to a sealing plane occupied by the glass panel in the sealing position.

3. A door according to claim 1, characterized in that the at least one strut bears at least two guide tracks, respectively next to upper and lower parts of the movable glass panel.

4. A door according to claim 1, characterized in that the at least one strut enters into the shell.

5. A door according to claim 1, characterized in that the at least one strut is arranged to contact with the inside of the movable glass panel, so as to have a flush aspect in the sealing position.

6. A door according to claim 1, characterized in that the at least one strut is connected at an upper part by a cross member to form an interior frame, the watertight joint substantially extending along the entire length of the frame.

7. A door according to claim 1, characterized in that the movable panel is mounted to at least one foot whose displacement is guided via a guide rail and the at least one guide track.

8. A door according to claim 7, characterized by a motorized means of driving the movable panel that act on at least one of the feet, ensuring the sliding.

9. A door according to claim 1, characterized by a motorized means of driving the movable panel, ensuring the sliding.

10. A door according to claim 9, characterized by in that the means of driving are mounted into a single rail fitted to the inside of the shell, and/or into at least one of the struts.

11. A door according to claim 1, characterized in that the door further comprises at least one fixed panel, fitted into the sealing plane.

12. A door according to claim 1, characterized in that the door comprises at least one windscreen wiper blade intended to be moved across the panel in the sealing position, and means of guiding on the at least one strut as to allow for movement of the at least one blade.

13. A door according to claim 1, characterized in that the door has a blind.

14. A door according to claim 13, characterized in that the at least one strut has means of guiding the sliding of a pull bar of the blind.

15. A door according to claim 1, characterized in that the door comprises burglarproof means acting upon the movable panel in the sealing position.

16. A door according to claim 15, characterized in that the burglarproof means comprise at least one

lock intended to operate with a complementarily shaped housing set into one of the struts or into the frame, providing a burglarproof position of the panel in the sealing position, according to which the panel cannot be pulled towards the exterior of the vehicle.

17. A door according to claim 16, characterized in that the at least one lock is arranged to slot into a part that protrudes the struts or the frame.

18. A door according to claim 1, characterized in that the door comprises means of adjusting the sealing position of the movable panel.

19. A door according to claim 18, characterized in that the means of adjusting are supported by the movable panel or by an integral part of the latter, and are intended to operate with the frame so as to adjust the sealing position of the movable panel.

20. A door according to claim 19, characterized in that the means of adjusting comprise two screws, one acting on the sealing position along the width of the movable panel, the other acting on the sealing position along the height of the movable panel.

21. A door according to claim 1, characterized in that the at least one strut is an extrusion.

22. A unit of a door for a motor vehicle, creating a kit ready to be mounted to a lower shell of the door, and comprising at least one movable glass panel arranged to slide at least partially on the inside of the shell between a sealing position and at least one open position, characterized in that

the unit comprises at least one strut bearing a watertight joint against which an inside of the movable glass panel leans in the sealing position, and in that

the at least one strut bears at least one guide track allowing the movable glass panel to separate from the watertight joint to a sliding plane in which the movable panel can slide without damaging the watertight joint, and can return to lean against the watertight joint in a sealing plane, parallel to the sliding plane.

23. A unit according to claim 22, characterized in that the door also comprises means of motorization.

24. A unit according to claim 22, characterized in that the at least one strut has an extension intended to enter the shell so as to allow the interlocking of the shell with the unit.

25. A unit according to claim 22, characterized in that the unit comprises means of stiffening.

26. A unit according to claim 25, characterized in that the means of stiffening preferably comprise at least one lower cross member linking the shell to the at least one strut.

27. A unit according to claim 26, characterized in that the lower cross member has means of implementation and/or support of the at least one strut.

28. A unit according to claim 27, characterized in that the means of implementation and/or support comprise at least one coupling fitted onto one of the ends of the lower cross member to form a housing for the at least one strut.

29. A unit of the door according to claim 28, characterized in that the at least one guide track has at least one mounting bracket on the at least one strut and/or the lower cross member.

30. A unit according to claim 23, characterized in that the means of motorization are fitted to a lower cross member linking the shell to the at least one strut.

31. A unit according to claim 23, characterized in that the means of motorization comprises:

- at least one gear motor,
- at least one coil coupled to the gear motor,
- at least one multi-stranded cable,
- at least one protective sheath of the cable,
- means of placing the cable under tension.

32. The unit according to claim 21, characterized by the inclusion of a blind.

33. A motor vehicle, characterized in that at least one door of the motor vehicle comprises a body shell and at least one movable glass panel arranged to slide at least partially on the inside of the shell between a sealing position and at least one open position, the at least one door being characterized in that

- at least one strut bears a watertight joint against which an inside of the movable glass panel leans in the sealing position, and in that

- the at least one strut bears at least one guide track allowing the movable glass panel to separate from the watertight joint in a sliding plane in which the movable panel can slide without damaging the watertight joint, and to which the movable glass panel can return to lean against the watertight joint in the sealing plane, parallel to the sliding plane.

34. A method of manufacturing a door for a motor vehicle comprising steps of:

manufacture of a lower shell of the door;

assembly of an upper unit of the door, creating a kit, and comprising

at least one movable glass panel, arranged to slide at least partially on the inside of the shell between a sealing position and at least one open position,

at least one strut bearing

a watertight joint against which an inside of the movable glass panel leans, in the sealing position, and

at least one guide track allowing the movable glass panel to separate from the watertight joint in a sliding plane in which the movable panel can slide without damaging the watertight joint, and can return the movable glass panel to lean against the watertight joint in a sealing plane, parallel to the sliding plane; and  
assembly of the lower shell and the upper unit.